

**CLAIMS:**

1. A method comprising:  
constructing a reference grid on one of a digital printing system and an analog  
5 printing system;  
constructing a scaling grid on the other of the digital printing system and the analog  
printing system;  
comparing the reference grid to the scaling grid; and  
determining a scaling factor as a function of the comparison.  
10
2. The method of claim 1, further comprising applying the scaling factor to the printing  
system on which the scaling grid was constructed.
3. The method of claim 2, further comprising printing part of an image on the printing  
15 system on which the reference grid was constructed and printing another part of the image on  
the printing system on which the scaling grid was constructed.
4. The method of claim 1,  
wherein constructing the reference grid comprises printing the reference grid on a  
20 first transparent medium;  
wherein constructing the scaling grid comprises printing the reference grid on a  
second transparent medium; and  
wherein comparing the reference grid to the scaling grid comprises laying one of the  
reference grid and the scaling grid atop the other of the reference grid and the scaling grid.  
25
5. The method of claim 1, wherein determining a scaling factor comprises determining a  
horizontal scaling factor and determining a vertical scaling factor.
6. A method comprising:  
30 constructing a reference grid on a reference printing system;  
constructing a scaling grid on a scalable printing system;

comparing the reference grid to the scaling grid; and  
determining a scaling factor as a function of the comparison.

7. The method of claim 6, further comprising setting the scaling on the scalable printing  
5 system as a function of the scaling factor.

8. The method of claim 7, further comprising printing part of an image on the reference  
printing system and printing another part of the image on the scalable printing system.

9. The method of claim 6, wherein constructing the reference grid comprises:  
10 constructing a reference line on a medium; and  
constructing a metric line on the medium parallel to the reference line and a standard  
distance from the reference line.

10. The method of claim 6, wherein constructing the scaling grid comprises:  
15 constructing a reference line on a medium; and  
constructing a first metric line and a second metric line on the medium parallel to the  
reference line, the first metric line closer to the reference line than the second metric line by  
an offset distance.

11. The method of claim 6, wherein comparing the reference grid to the scaling grid  
20 comprises:

laying one of the reference grid and the scaling grid atop the other of the reference  
grid and the scaling grid;

25 aligning a reference line on the reference grid with a reference line on the scaling  
grid; and

determining which of a plurality of metric lines on the scaling grid most closely  
aligns with a metric line on the reference grid.

12. The method of claim 11, wherein determining a scaling factor as a function of the comparison comprises observing a scaling number that corresponds to the metric line on the scaling grid that most closely aligns with the metric line on the reference grid.

5 13. The method of claim 6, wherein the scaling factor is a horizontal scaling factor, the method further comprising determining a vertical scaling factor as a function of the comparison.

14. A system comprising:

10 a reference grid comprising:

a first medium;

a first reference line constructed on the first medium; and

a first metric line constructed on the first medium parallel to the first reference line and a first distance from the first reference line,

15 a scaling grid comprising:

a second medium;

a second reference line constructed on the second medium;

a second metric line constructed on the second medium parallel to the second reference line and a second distance from the second reference line.

20 15. The system of claim 14, further comprising a reference printing system that constructs the reference grid and a scalable printing system that constructs the scaling grid.

25 16. The system of claim 15, wherein the reference printing system is one of a digital printing system and an analog printing system and wherein the scalable printing system is the other of the digital printing system and the analog printing system.

17. The system of claim 14,

30 wherein the reference grid is constructed with one of a digital printing system and an analog printing system, and

wherein the scaling grid is constructed with the other of the digital printing system and the analog printing system.

18. The system of claim 14, the scaling grid further comprising:

a third metric line constructed on the second medium parallel to the second reference line and a third distance from the second reference line;

a first scaling number constructed on the second medium proximal to the second metric line; and

a second scaling number constructed on the second medium proximal to the third metric line.

19. The system of claim 14, the reference grid further comprising:

a third reference line constructed on the first medium perpendicular to the first reference line; and

a third metric line constructed on the first medium parallel to the third reference line and a third distance from the third reference line.

20. The system of claim 14, the scaling grid further comprising:

a third reference line constructed on the second medium perpendicular to the second reference line; and

a third metric line constructed on the second medium parallel to the third reference line and a third distance from the third reference line.

21. The system of claim 14, wherein at least one of the first medium and the second medium is transparent.

22. A method comprising:

determining a scaling factor as a function of a comparison of a reference image printed on a reference printing system and a scaling image printed on a scalable printing system;

applying the scaling factor to the scalable printing system;  
 printing part of an image on the reference printing system; and  
 printing another part of the image on the scalable printing system.

5      23.      The method of claim 22, wherein the reference image comprises a reference line on a medium and a metric line on the medium parallel to the reference line and a standard distance from the reference line.

10      24.      The method of claim 22, wherein the scaling image comprises a reference line on a medium, and a first metric line and a second metric line on the medium parallel to the reference line, the first metric line closer to the reference line than the second metric line by an offset distance.

15      25.      The method of claim 22, wherein comparison of the reference image and the scaling image comprises:

laying one of the reference image and the scaling image atop the other of the reference image and the scaling image; and

aligning a reference line on the reference image with a reference line on the scaling image.

20      26.      The method of claim 22, wherein scaling factor is a horizontal scaling factor, the method further comprising determining a vertical scaling factor as a function of a second comparison of the reference image and the scaling image .